# Knowledge Regarding Role of Anaesthesia Technologists among Patients Undergoing Elective Surgery in Multispeciality Hospitals of Aurangabad Maharashtra

Sujata Walode<sup>1</sup>, Ms. Anugretha Anil Dhanke<sup>2</sup>, Dr. Rajesh Dase<sup>3</sup>, Shivkanya Garud<sup>4</sup>, Rehaan Patel<sup>5</sup>

<sup>1</sup>Assistant Professor, Department of OT & AT,

MGM School of Biomedical Sciences, MGM IHS, Aurangabad, Maharashtra, India <sup>2</sup>Assistant Professor, Cardiac Care Technology,

MGM School of Biomedical Sciences, MGM IHS, Aurangabad, Maharashtra, India

<sup>3</sup>Assistant Professor, Department of Statistics,

SBES College of Science, Chhatrapati Sambhajinagar, Maharashtra, India <sup>4</sup>B.Sc. OT & AT Student,

MGM School of Biomedical Sciences, MGM IHS, Aurangabad, Maharashtra, India <sup>5</sup>B.Sc., Cardiac Care Technology Student,

MGM School of Biomedical Sciences, MGM IHS, Aurangabad, Maharashtra, India

### **ABSTRACT**

**Objective**: The major objective of the study is to assess the knowledge of patients undergoing elective surgery regarding the role of anaesthesia technologists. The roles of anaesthesia technologists are unknown and unrecognized by the public. There is a need to aware and educate the normal population regarding the role of anaesthesia technologists as they play a vital role in peri-operative management of patient along with anaesthesiologists

**Methods**: This cross-sectional hospital-based study was conducted with the help of questionnaire that assesses the basic knowledge and awareness about role of anaesthesia technologists. A total of 267 participant's responses were recorded in Microsoft Excel and analysed in the Statistical Package of the Social Sciences.

**Results**: The present study showed that participant's overall knowledge was good but they were not aware about the work and role of anaesthesia technologists. Only 38.2% of participants were well trained aware that anaesthesia technologist's role is to assist anaesthesiologists. The majority of the participants are well aware that preparation of anaesthesia is done by anaesthesia technologists.

**Conclusion**: Efforts should be directed towards the information which increases the awareness of public of the role of anaesthesia technologists will contribute towards the improvement of awareness regarding the fraternity of anaesthesia technologists.

**KEYWORDS:** Anaesthesia technologists, roles, responsibilities, knowledge, awareness, surgery

How to cite this paper: Sujata Walode | Ms. Anugretha Anil Dhanke | Dr. Rajesh Dase | Shivkanya Garud | Rehaan Patel "Knowledge Regarding Role of Anaesthesia Technologists among Patients Undergoing Elective Surgery in Multispeciality Hospitals of Aurangabad

Maharashtra"
Published in
International Journal
of Trend in
Scientific Research
and Development
(ijtsrd), ISSN: 24566470, Volume-8



Issue-2, April 2024, pp.184-190, URL: www.ijtsrd.com/papers/ijtsrd64582.pdf

Copyright © 2024 by author (s) and International Journal of Trend in Scientific Research and Development

Journal. This is an Open Access article distributed under the



terms of the Creative Commons Attribution License (CC BY 4.0) (http://creativecommons.org/licenses/by/4.0)

#### INTRODUCTION

There is a stupendous growth in the field of Allied Health Sciences under which Anaesthesia Technology plays a vital role in the healthcare system. Anaesthesia technologists are an important team member in the anaesthesia team who helps in the peri-operative management of patients and also outside the operation theatre i.e., in the ICU and

casualties, still they do not get due acknowledgement. There is a limited awareness of public towards anaesthesia technologists. It is crucial for us to spread awareness about the role played by anaesthesia technologists in healthcare setting.

Anaesthesia Technology as a speciality has grown tremendously over the last few years. Anaesthesia

Technologists are required along with the anaesthesiologists for assistance during every procedure. They are the helping hands of anaesthesia team as well as surgical team i.e., during induction and positioning of the patient. They play a major role in operation theatre from entrance of patient till exit and also in recovery room, casualty and ICUs. Still the role of anaesthesia technologists is not clear and not known by the people. It is widely confused by the role of nursing staff.

Anaesthesiology is the art and science for relieving pain intra-operatively where safety is the most important priority through eternal vigilance. Anaesthesia and anaesthesiologists had got "behind the screen" role from the beginning. The anaesthesiologists are regarded by the vast majority of patients as the ultimate assistants of the surgeon, excelling in their ability to induce sleep and awaken post-surgery. Likewise, patient's anaesthesia technologist's role is also considered behind the screen, unexposed and is not recognized by the patient. Anaesthesia technologists participate as the primary assistant to anaesthesia for procedures in the operating room. They assist the anaesthesiologists and help them for patient care, monitoring, areas outside the operation theatre i.e., in pain clinics, labour analgesia, trauma and emergency as well as in ICU.

An anaesthesia technologist assists pre-operatively, intra-operatively and post operatively. They have significant patient contact while assisting in transport and procedures. They work collaboratively with anaesthesia, nursing staff and off-site resources. In addition, they assist with preparation of anaesthesia supplies. They are exceptionally proficient in the sterilization, maintenance, packing, and resupplying of the intricate anaesthesia supplies and equipment of the operating room. They are expertise in the sterilization, maintenance, packing and resupplying of the complex anaesthesia supplies and equipment of operating room. They also assist during preanaesthesia check-up of patient pre-operatively and when available responds to code of anaesthesia. However, despite being working so hard in the perioperative management of patient and handling anaesthesia equipment's inside the operating room as well as other areas of hospital, it is observed that anaesthesia technologists do not get due they deserve in the eyes of public as well as fellow healthcare professionals.

There have been studies on assessment of knowledge on anaesthesia and role of anaesthesiologists before. There have been no studies previously regarding assessment of knowledge of role of anaesthesia technologists. The aim of the study is to assess the knowledge of patients undergoing elective surgery regarding the role of anaesthesia technologists in multi- speciality hospitals of Aurangabad Maharashtra.

#### **Material & Methods**

A cross- sectional hospital-based study was conducted among patients of multi-speciality hospital in Aurangabad, Maharashtra. The study was conducted over a brief period of three months.

# Sample Size

For present study sample size is calculated by considering peoples are having knowledge of anaesthesia technologists of 50%. Required sample size was 267 participants.

# Methodology

The survey was conducted in the preoperative period. The survey was done by self-structured and validated questionnaire. The questionnaire was reviewed and validated by Associate Professors of department of Anaesthesiology. The questionnaire consists of two sections. The first section included the demographic data of the patient in which we asked them about their age, gender, education, occupation, area of living, source of information, and type of surgery. The second section had questions on the role of anaesthesia technologists. There were 13 questions in this questionnaire. It was carried out by the undergraduate intern students posted in MGM Hospital. After confirmation of their willingness to participate in the study, the patients were explained about the questionnaire and its pattern. The questionnaire was available in two languages-Marathi and English. Patients could select the language of their choice. For illiterate patients and patients not known to Marathi and Hindi language had an interpreter who helped them in explaining and asking questions to patients and answers were ticked by the student answered by the patient. Literate patients were given the questionnaire and were asked to tick the correct answer of their choice. After 3 months, survey questionnaire data was collected and analysed. Ethical approval was obtained from the Ethical Committee of MGM Medical college & Hospitals, Aurangabad to perform the study.

## **Inclusion Criteria**

Adults in the age group of 18-65 years who had American Society of Anaesthesiologists (ASA) grade 1 and 2, undergoing elective surgeries and who are willing to participate and submitted informed consent for the study.

#### **Exclusion Criteria**

Patients of <18 and > 65 years with ASA grade 3 and above, undergoing emergency surgeries, having a

history of psychological disorder, and are not willing to participate were excluded from the study.

# **Statistical Analysis**

Data was entered in Microsoft Excel and analyzed using IBM Corp. Released 2016. IBM SPSS Statistics for Windows, Version 24.0. Armonk, NY: IBM Corp. The normality of data was checked using Shapiro Wilk test. The chi-square test was applied to check the association between demographic data and knowledge. The significance level for checking the p-value is set at 5%.

The mean and standard deviation (SD) were calculated with exceptional precision for quantitative variables, while proportions were calculated with unparalleled accuracy for categorical variables.

#### **Results**

The study was conducted on 267 participants in which majority of the participants were in 26-45 years of age group (41.2%), 135 (50.6%) were male and 132(49.4%) were female. The majority of participants were from groups other than medical and paramedical 223 (88.3%). Most of the participants were on a higher level of education 74 (27.7%). Maximum participants belonged to rural areas 152 (56.9%) and mostly the participants knew about anaesthesia technologists from their relatives 78 (29.2%). Most of the participants were posted for orthopedic surgeries 71 (26.6%) [Table 1].

Table 1

<b>Patients Characteristics</b>	N (%)
Age	W W.
18-25 Yrs	76 (28.5)
26-45 Yrs	110 (41.2)
46- 65 Yrs	81 (30.3)
Gender	
Male	135 (50.6)
Female	132 (49.4)
Occupation	
Medical	14 (5.2)
Paramedical	30 (11.2)
Others	223 (83.6)
Qualification	
Illiterate	34 (12.7)
Primary School	19 (7.1)
Hsc	47 (17.6)
Ssc	41 (15.4)
Graduate	74 (27.7)
Post Graduate	14 (5.2)
Other	38 (14.2)
Area Of Living	
Rural	152 (56.9)
Urban	115 (43.1)

Source of Information						
Social Media	24 (9.0)					
Relatives	78 (29.2)					
Friends	29 (10.9)					
Self-Exposure	57 (21.3)					
Medical Staff	59 (22.2)					
Newspaper	10 (3.7)					
Article/Books	10 (3.7)					
Type Of Surgery						
Orthopedic	71 (26.6)					
Neurology	21 (7.9)					
Urology	49 (18.4)					
Gynaecology	56 (21.0)					
Cardiac	23 (8.6)					
Plastic	27 (10.1)					
Gastroenterology	20 (7.5)					

#### **Knowledge of Patients [TABLE 2]**

Table 2 shows the knowledge of participants regarding anaesthesia technologists. Out of 267 participants, less than half (47.2%) of the participants knew that Anaesthesia Technologist is an Assistant. 56.6% of the participants were aware that a graduate is qualified for the post of anaesthesia technologist. Also, a very few participants (42.7%) were aware that the anaesthesia technologists and nurses are not same. Role of anaesthesia technologist is assisting anaesthetist; surgeon and the team members of operation theatre was known to only 47.2% of the participants. Only 43.4% of the participants had read about the roles of the anaesthesia technologist in any article, books or magazine.

Less than two third of the participants were aware about where anaesthesia technologists work in a hospital setup. As less as 44.9% of them knew that anaesthesia technologist stays throughout the surgery. Half of the participants (53.2%) were aware that the preparation of anaesthetic equipment's is done by anaesthesia technologist. Only 40.1% of the participants knew that anaesthesia technologists are not the authorized personnel to administer anaesthesia independently. It is very unsettling to see that only 38.2% of the participants were aware that the role of anaesthesia technologists is assisting anaesthesiologists, monitoring of patient and helping in positioning of patient. Almost only two third of the participants (63.7%) knew that it is compulsory for the anaesthesia technologists to be present with anaesthetist during the procedure. One anaesthesia technologist should be present with anaesthetist in OT was known to only 62.5% of the participants. Sadly, only 37.8% participants were aware that anaesthesia technologists are responsible for the recovery of patient.

TABLE 2

Who is an Anaesthesia Technologist?   78(29.2)	TABLE 2	(67)
Doctor   T8(29.2)	QUESTIONS	n (%)
Specialist         13(4.9)           Assistant         126(47.2)           No idea         50(18.7)           What is the qualification of an anaesthesia technologist?         151(56.6)           HSC passed         29(10.9)           Graduate         151(56.6)           Certificate         14(5.2)           Diploma         17(6.4)           No idea         56(21.0)           Are the nurses and anaesthesia technologists same?         ***           Yes         89(33.3)           No         114(42.7)           No idea         64(24.0)           What is the role of Anaesthesia Technologist?         ****           Performing surgery         21(7.9)           Administering anaesthesia         67(25.1)           Assisting anaesthesis, surgeon and the team members of operation theatre         126(47.2)           Writing prescription of drugs         6(2.2)           No idea         47(17.6)           Have you read about the roles of anaesthesia technologist in any article, books or magazine?           Yes         151(56.6)           Where does the different area where anaesthesia technologist's work in hospital set up.*           Operation theatre         116(43.4)           ICU         11(4.1)      <		70(20.2)
Assistant         126(47.2)           No idea         30(18.7)           What is the qualification of an anaesthesia technologist?         30(18.7)           HSC passed         29(10.9)           Graduate         15(56.6)           Certificate         14(5.2)           Diploma         17(6.4)           No idea         36(21.0)           Are the nurses and anaesthesia technologists same?         89(33.3)           Yes         89(33.3)           No         114(42.7)           No idea         64(24.0)           What is the role of Anaesthesia Technologist?         12(7.9)           Performing surgery         21(7.9)           Administering anaesthesia         67(25.1)           Assisting anaesthetist, surgeon and the team members of operation theatre         126(47.2)           Writing prescription of drugs         62.22           Wo idea         47(17.6)           Have you read about the roles of anaesthesia technologist in any article, books or magazine?           Yes         151(56.6)           Where does the different area where anaesthesia technologist's work in hospital set up?           Operation theatre         116(43.4)           ICU         111(4.1)           Recovery room         4(1.5) <td></td> <td>1</td>		1
No idea	•	` ′
What is the qualification of an anaesthesia technologist?         29(10.9)           HSC passed         15(56.6)           Certificate         14(5.2)           Diploma         17(6.4)           No idea         56(21.0)           Are the nurses and anaesthesia technologists same?         89(33.3)           No         114(42.7)           No idea         64(24.0)           What is the role of Anaesthesia Technologist?         17(7.9)           Performing surgery         21(7.9)           Administering anaesthesia         67(25.1)           Assisting anaesthetist, surgeon and the team members of operation theatre         126(47.2)           Writing prescription of drugs         6(2.2)           No idea         47(17.6)           Have you read about the roles of anaesthesia technologist in any article, books or magazine?         Yes           Yes         116(43.4)           No         15(156.6)           Where does the different area where anaesthesia technologist's work in hospital set up?           Operation theatre         116(43.4)           ICU         114(4.1)           Recovery room         4(1.5)           All of the above         99(37.1)           No idea         90(33.8)           Preparation of anae		` ′
HSC passed   29(10.9)     Graduate   151(56.6)     Certificate   14(5.2)     Diploma   17(6.4)     No idea   56(21.0)     Are the nurses and anaesthesia technologists same?     Yes   89(33.3)     No   114(42.7)     No idea   64(24.0)     What is the role of Anaesthesia Technologist?     Performing surgery   21(7.9)     Administering anaesthesia   67(25.1)     Assisting anaesthetist, surgeon and the team members of operation theatre   126(47.2)     Writing prescription of drugs   6(2.2)     No idea   47(17.6)     Have you read about the roles of anaesthesia technologist in any article, books or magazine?     Yes   116(43.4)     No   116(43.4)     No   116(43.4)     No   116(43.4)     ICU   116(43.4)     ICU   116(43.4)     ICU   116(43.4)     ICU   116(43.4)     ICU   116(43.4)     ICU   116(43.4)     Recovery room   4(1.5)     All of the above   99(37.1)     No idea   37(13.9)     Does the anaesthesia technologist stay throughout the surgery?     Yes   120(44.9)     No idea   97(37.1)     Anaesthesia technologist stay throughout the surgery?     Preparation of anaesthetic equipment's is done by?     Anaesthesia technologist the authorized personnel to administer anaesthesia independently?     Yes   120(44.9)     No idea   39(13.5)     No idea   39(13.5)     No idea   41(253.2)     Nurses   22(8.2)     No idea   45(16.9)     Ara anaesthesia technologists the authorized personnel to administer anaesthesia independently?     Yes   58(21.7)     No idea   107(40.1)     No		50(18.7)
Graduate         151(56.6)           Certificate         14(5.2)           Diploma         17(6.4)           No idea         56(21.0)           Are the nurses and anaesthesia technologists same?         \$8(33.3)           Yes         89(33.3)           No         114(42.7)           No idea         64(24.0)           What is the role of Anaesthesia Technologist?         21(7.9)           Administering anaesthesia         67(25.1)           Assisting anaesthetist, surgeon and the team members of operation theatre         126(47.2)           Writing prescription of drugs         6(2.2)           No idea         47(17.6)           Have you read about the roles of anaesthesia technologist in any article, books or magazine?         Yes           Yes         Info(43.4)           No         116(43.4)           No         116(43.4)           ICU         116(43.4)           ICU         116(43.4)           ICU         116(43.4)           ICU         116(43.4)           No idea         37(1.5)           All of the above         99(37.1)           No idea         57(21.3)           No idea         120(44.9)           No idea <td< td=""><td></td><td></td></td<>		
Certificate         14(5.2)           Diploma         17(6.4)           No idea         56(21.0)           Are the nurses and anaesthesia technologists same?         89(33.3)           No         114(42.7)           No idea         64(24.0)           What is the role of Anaesthesia Technologist?         21(7.9)           Administering anaesthesis.         67(25.1)           Assisting anaesthetist, surgeon and the team members of operation theatre         126(47.2)           Writing prescription of drugs         6(2.2)           No idea         47(17.6)           Have you read about the roles of anaesthesia technologist in any article, books or magazine?           Yes         116(43.4)           No         151(56.6)           Where does the different area where anaesthesia technologist's work in hospital set up?           Operation theatre         116(43.4)           ICU         114(4.1)           Recovery room         4(1.5)           All of the above         99(37.1)           No idea         37(13.9)           Does the anaesthesia technologist stay throughout the surgery?         Yes           Yes         120(44.9)           No         57(21.3)           No idea         90(33.8)	1	1 /
Diploma         17(6.4)           No idea         56(21.0)           Are the nurses and anaesthesia technologists same?         \$9(33.3)           No         114(42.7)           No idea         64(24.0)           What is the role of Anaesthesia Technologist?         21(7.9)           Performing surgery         21(7.9)           Administering anaesthesia         67(25.1)           Assisting anaesthetist, surgeon and the team members of operation theatre         126(47.2)           Writing prescription of drugs         6(2.2)           No idea         47(17.6)           Have you read about the roles of anaesthesia technologist in any article, books or magazine?         15(63.4)           No         151(56.6)           Where does the different area where anaesthesia technologist's work in hospital set up?         Operation theatre           Operation theatre         116(43.4)           ICU         111(4.1)           Recovery room         4(1.5)           All of the above         99(37.1)           No idea         99(37.1)           No idea         99(37.1)           No idea         99(38.8)           Preparation of anaesthetic equipment's is done by?           Anaesthetist         39(14.6)           Surgeon <td></td> <td>` ′</td>		` ′
No idea         56(21.0)           Are the nurses and anaesthesia technologists same?         89(33.3)           No         114(42.7)           No idea         64(24.0)           What is the role of Anaesthesia Technologist?         21(7.9)           Administering anaesthesia         67(25.1)           Assisting anaesthetist, surgeon and the team members of operation theatre         126(47.2)           Writing prescription of drugs         6(2.2)           No idea         47(1.6)           Have you read about the roles of anaesthesia technologist in any article, books or magazine?           Yes         116(43.4)           No         151(56.6)           Where does the different area where anaesthesia technologist's work in hospital set up?           Operation theatre         116(43.4)           ICU         11(4.1)           Recovery room         4(1.5)           All of the above         99(37.1)           No idea         37(13.9)           Does the anaesthesia technologist stay throughout the surgery?           Yes         120(44.9)           No         57(21.3)           No idea         90(33.8)           Preparation of anaesthetic equipment's is done by?         412(53.2)           Anaesthesia technologists the authorized pe	Certificate	14(5.2)
Are the nurses and anaesthesia technologists same?   Yes	Diploma	17(6.4)
Yes         89(33.3)           No         114(42.7)           No idea         114(42.7)           What is the role of Anaesthesia Technologist?         21(7.9)           Performing surgery         21(7.9)           Administering anaesthesia         67(25.1)           Assisting anaesthetist, surgeon and the team members of operation theatre         126(47.2)           Writing prescription of drugs         6(2.2)           No idea         47(17.6)           Have you read about the roles of anaesthesia technologist in any article, books or magazine?           Yes         116(43.4)           No         151(56.6)           Where does the different area where anaesthesia technologist's work in hospital set up?           Operation theatre         116(43.4)           ICU         11(14.1)           Recovery room         SSE 255-47         4(1.5)           All of the above         99(37.1)           No idea         37(13.9)           Does the anaesthesia technologist stay throughout the surgery?           Yes         120(44.9)           No         57(21.3)           No idea         90(33.8)           Preparation of anaesthetic equipment's is done by?         39(14.6)           Anaesthetist         39(14.6)     <	No idea	56(21.0)
No         114(42.7)           No idea         64(24.0)           What is the role of Anaesthesia Technologist?         21(7.9)           Performing surgery         21(7.9)           Administering anaesthesia         67(25.1)           Assisting anaesthetist, surgeon and the team members of operation theatre         126(47.2)           Writing prescription of drugs         6(2.2)           No idea         47(17.6)           Have you read about the roles of anaesthesia technologist in any article, books or magazine?           Yes         116(43.4)           No         151(56.6)           Where does the different area where anaesthesia technologist's work in hospital set up.           Operation theatre         116(43.4)           ICU         114(4.1)           Recovery room         \$88,2456.470         4(1.5)           All of the above         99(37.1)           No idea         99(37.1)           No idea         99(37.1)           No idea         57(21.3)           No idea         39(14.6)           Surgeon         19(44.9)           Anaesthetist         39(14.6)           Surgeon         19(7.1)           Anaesthesia technologist         45(16.9)           Are anaesthesia t	Are the nurses and anaesthesia technologists same?	
No idea         64(24.0)           What is the role of Anaesthesia Technologist?         Performing surgery         21(7.9)           Administering anaesthesia         67(25.1)           Assisting anaesthetist, surgeon and the team members of operation theatre         126(47.2)           Writing prescription of drugs         6(2.2)           No idea         47(17.6)           Have you read about the roles of anaesthesia technologist in any article, books or magazine?         116(43.4)           No         151(56.6)           Where does the different area where anaesthesia technologist's work in hospital set up?         Poperation theatre           ICU         11(4.1)           Recovery room         4(1.5)           All of the above         99(37.1)           No idea         99(37.1)           No idea         99(37.1)           No idea         120(44.9)           No idea         57(21.3)           No idea         99(38.8)           Preparation of anaesthetic equipment's is done by?         39(14.6)           Anaesthetist         39(14.6)           Surgeon         19(7.1)           Anaesthesia technologist the authorized personnel to administer anaesthesia independently?           Yes         58(21.7)           No	Yes	89(33.3)
What is the role of Anaesthesia Technologist?           Performing surgery         21(7.9)           Administering anaesthesia         67(25.1)           Assisting anaesthetist, surgeon and the team members of operation theatre         126(47.2)           Writing prescription of drugs         6(2.2)           No idea         47(17.6)           Have you read about the roles of anaesthesia technologist in any article, books or magazine?         116(43.4)           No         151(56.6)           Where does the different area where anaesthesia technologist's work in hospital set up?         116(43.4)           ICU         11(4.1)           Recovery room         4(1.5)           All of the above         99(37.1)           No idea         37(13.9)           Does the anaesthesia technologist stay throughout the surgery?         Yes           Yes         120(44.9)           No         57(21.3)           No idea         90(33.8)           Preparation of anaesthetic equipment's is done by?         39(14.6)           Surgeon         19(7.1)           Anaesthetist         22(8.2)           No idea         45(16.9)           Are anaesthesia technologists the authorized personnel to administer anaesthesia independently?           Yes         5	No	114(42.7)
Performing surgery         21(7.9)           Administering anaesthesia         67(25.1)           Assisting anaesthetist, surgeon and the team members of operation theatre         126(47.2)           Writing prescription of drugs         6(2.2)           No idea         47(17.6)           Have you read about the roles of anaesthesia technologist in any article, books or magazine?         116(43.4)           Yes         116(43.4)           No         151(56.6)           Where does the different area where anaesthesia technologist's work in hospital set up?         Operation theatre           ICU         11(4.1)           Recovery room         4(1.5)           All of the above         99(37.1)           No idea         99(37.1)           No idea         120(44.9)           No         57(21.3)           No idea         90(33.8)           Preparation of anaesthetic equipment's is done by?         39(14.6)           Anaesthetist         39(14.6)           Surgeon         19(7.1)           Anaesthesia technologist         45(16.9)           Are anaesthesia technologists the authorized personnel to administer anaesthesia independently?           Yes         58(21.7)           No         107(40.1)           No idea<	No idea	64(24.0)
Performing surgery         21(7.9)           Administering anaesthesia         67(25.1)           Assisting anaesthetist, surgeon and the team members of operation theatre         126(47.2)           Writing prescription of drugs         6(2.2)           No idea         47(17.6)           Have you read about the roles of anaesthesia technologist in any article, books or magazine?         116(43.4)           Yes         116(43.4)           No         151(56.6)           Where does the different area where anaesthesia technologist's work in hospital set up?         Operation theatre           ICU         11(4.1)           Recovery room         4(1.5)           All of the above         99(37.1)           No idea         99(37.1)           No idea         120(44.9)           No         57(21.3)           No idea         90(33.8)           Preparation of anaesthetic equipment's is done by?         39(14.6)           Anaesthetist         39(14.6)           Surgeon         19(7.1)           Anaesthesia technologist         45(16.9)           Are anaesthesia technologists the authorized personnel to administer anaesthesia independently?           Yes         58(21.7)           No         107(40.1)           No idea<	What is the role of Anaesthesia Technologist?	
Administering anaesthesia         67(25.1)           Assisting anaesthetist, surgeon and the team members of operation theatre         126(47.2)           Writing prescription of drugs         6(2.2)           No idea         47(17.6)           Have you read about the roles of anaesthesia technologist in any article, books or magazine?         116(43.4)           Yes         116(43.4)           No         151(56.6)           Where does the different area where anaesthesia technologist's work in hospital set up?         116(43.4)           Operation theatre         116(43.4)           ICU         11(4.1)           Recovery room         4(1.5)           All of the above         99(37.1)           No idea         37(13.9)           Does the anaesthesia technologist stay throughout the surgery?         Yes           Yes         120(44.9)           No         57(21.3)           No idea         90(33.8)           Preparation of anaesthetic equipment's is done by?         39(14.6)           Surgeon         19(7.1)           Anaesthetis technologist         19(7.1)           Anaesthesia technologist the authorized personnel to administer anaesthesia independently?           Yes         88(21.7)           No         107(40.1)		21(7.9)
Assisting anaesthetist, surgeon and the team members of operation theatre         126(47.2)           Writing prescription of drugs         6(2.2)           No idea         47(17.6)           Have you read about the roles of anaesthesia technologist in any article, books or magazine?         116(43.4)           No         151(56.6)           Where does the different area where anaesthesia technologist's work in hospital set up?         116(43.4)           ICU         11(4.1)           Recovery room         4(1.5)           All of the above         99(37.1)           No idea         37(13.9)           Does the anaesthesia technologist stay throughout the surgery?         Yes           Yes         120(44.9)           No idea         57(21.3)           No idea         90(33.8)           Preparation of anaesthetic equipment's is done by?         40(1.5)           Anaesthetist         39(14.6)           Surgeon         19(7.1)           Anaesthesia technologist         142(53.2)           Nurses         22(8.2)           No idea         45(16.9)           Are anaesthesia technologists the authorized personnel to administer anaesthesia independently?           Yes         58(21.7)           No         107(40.1)		
Writing prescription of drugs         6(2.2)           No idea         47(17.6)           Have you read about the roles of anaesthesia technologist in any article, books or magazine?           Yes         116(43.4)           No         15(56.6)           Where does the different area where anaesthesia technologist's work in hospital set up?           Operation theatre         116(43.4)           ICU         11(4.1)           Recovery room         4(1.5)           All of the above         99(37.1)           No idea         37(13.9)           Does the anaesthesia technologist stay throughout the surgery?         Yes           Yes         120(44.9)           No         57(21.3)           No idea         90(33.8)           Preparation of anaesthetic equipment's is done by?         19(7.1)           Anaesthetist         39(14.6)           Surgeon         19(7.1)           Anaesthesia technologist         142(53.2)           Nurses         22(8.2)           No idea         45(16.9)           Ves         58(21.7)           No         107(40.1)           No idea         102(38.2)           What does Anaesthesia technologists do during administration of anaesthesia?		` ′
No idea         47(17.6)           Have you read about the roles of anaesthesia technologist in any article, books or magazine?           Yes         116(43.4)           No         151(56.6)           Where does the different area where anaesthesia technologist's work in hospital set up?           Operation theatre         116(43.4)           ICU         116(43.4)           Recovery room         4(1.5)           All of the above         99(37.1)           No idea         37(13.9)           Does the anaesthesia technologist stay throughout the surgery?           Yes         120(44.9)           No         57(21.3)           No idea         90(33.8)           Preparation of anaesthetic equipment's is done by?         39(14.6)           Anaesthetist         39(14.6)           Surgeon         19(7.1)           Anaesthesia technologist         142(53.2)           Nurses         22(8.2)           No idea         45(16.9)           Are anaesthesia technologists the authorized personnel to administer anaesthesia independently?           Yes         58(21.7)           No         107(40.1)           No idea         102(38.2)           What does Anaesthesia technologists do during administration of anaesthesia?		
Have you read about the roles of anaesthesia technologist in any article, books or magazine?         Yes       116(43.4)         No       151(56.6)         Where does the different area where anaesthesia technologist's work in hospital set up?         Operation theatre       116(43.4)         ICU       11(4.1)         Recovery room       4(1.5)         All of the above       99(37.1)         No idea       37(13.9)         Does the anaesthesia technologist stay throughout the surgery?         Yes       120(44.9)         No       57(21.3)         No idea       90(33.8)         Preparation of anaesthetic equipment's is done by?       39(14.6)         Anaesthetist       39(14.6)         Surgeon       19(7.1)         Anaesthesia technologist       142(53.2)         No idea       45(16.9)         Are anaesthesia technologists the authorized personnel to administer anaesthesia independently?         Yes       58(21.7)         No       107(40.1)         No idea       102(38.2)         What does Anaesthesia technologists do during administration of anaesthesia?         Assisting anaesthesiologists       73(27.3)         Monitoring of patient       22(8.2) <td< td=""><td></td><td>· · ·</td></td<>		· · ·
Yes         International Journal         116(43.4)           No         151(56.6)           Where does the different area where anaesthesia technologist's work in hospital set up?           Operation theatre         116(43.4)           ICU         11(4.1)           Recovery room         4(1.5)           All of the above         99(37.1)           No idea         37(13.9)           Does the anaesthesia technologist stay throughout the surgery?           Yes         120(44.9)           No         57(21.3)           No idea         90(33.8)           Preparation of anaesthetic equipment's is done by?         39(14.6)           Anaesthetist         39(14.6)           Surgeon         19(7.1)           Anaesthesia technologist         142(53.2)           Nurses         22(8.2)           No idea         45(16.9)           Are anaesthesia technologists the authorized personnel to administer anaesthesia independently?           Yes         58(21.7)           No         107(40.1)           No idea         102(38.2)           What does Anaesthesia technologists do during administration of anaesthesia?         73(27.3)           Assisting anaesthesiologists         73(27.3)           Monitorin	TO THE STATE OF TH	
No         151(56.6)           Where does the different area where anaesthesia technologist's work in hospital set up?           Operation theatre         116(43.4)           ICU         11(4.1)           Recovery room         4(1.5)           All of the above         99(37.1)           No idea         37(13.9)           Does the anaesthesia technologist stay throughout the surgery?         120(44.9)           No         57(21.3)           No idea         90(33.8)           Preparation of anaesthetic equipment's is done by?         39(14.6)           Anaesthetist         39(14.6)           Surgeon         19(7.1)           Anaesthesia technologist         142(53.2)           Nurses         22(8.2)           No idea         45(16.9)           Are anaesthesia technologists the authorized personnel to administer anaesthesia indevendently?           Yes         58(21.7)           No         107(40.1)           No idea         107(40.1)           Are anaesthesia technologists the authorized personnel to administer anaesthesia indevendently?           Yes         58(21.7)           No         107(40.1)           No idea         107(38.2)           What does Anaesthesia technologists do during adm	77 2 3 17	
Where does the different area where anaesthesia technologist's work in hospital set up?         Operation theatre         116(43.4)           ICU         11(4.1)         11(4.1)           Recovery room         4(1.5)         4(1.5)           All of the above         99(37.1)         37(13.9)           No idea         37(13.9)         37(13.9)           Does the anaesthesia technologist stay throughout the surgery?         120(44.9)           Yes         120(44.9)         No           No idea         90(33.8)         Preparation of anaesthetic equipment's is done by?         39(14.6)           Anaesthetist         39(14.6)         39(14.6)           Surgeon         19(7.1)         142(53.2)           Nurses         22(8.2)           No idea         45(16.9)           Are anaesthesia technologists the authorized personnel to administer anaesthesia independently?         Yes           Yes         58(21.7)           No         107(40.1)           No idea         102(38.2)           What does Anaesthesia technologists do during administration of anaesthesia?         73(27.3)           Monitoring of patient         22(8.2)           Helping in positioning of patient         19(7.1)           All of the above         102(		
Operation theatre         116(43.4)           ICU         111(4.1)           Recovery room         \$\$\text{256.6470}\$         4(1.5)           All of the above         99(37.1)           No idea         37(13.9)           Does the anaesthesia technologist stay throughout the surgery?         **           Yes         120(44.9)           No         57(21.3)           No idea         90(33.8)           Preparation of anaesthetic equipment's is done by?         **           Anaesthetist         39(14.6)           Surgeon         19(7.1)           Anaesthesia technologist         142(53.2)           Nurses         22(8.2)           No idea         45(16.9)           Are anaesthesia technologists the authorized personnel to administer anaesthesia independently?           Yes         58(21.7)           No         107(40.1)           No idea         102(38.2)           What does Anaesthesia technologists do during administration of anaesthesia?         Assisting anaesthesiologists         73(27.3)           Monitoring of patient         22(8.2)           Helping in positioning of patient         19(7.1)           All of the above         102(38.2)	V) 3 v of field in colentino v = V)	
ICU         11(4.1)           Recovery room         4(1.5)           All of the above         99(37.1)           No idea         37(13.9)           Does the anaesthesia technologist stay throughout the surgery?         120(44.9)           Yes         120(44.9)           No         57(21.3)           No idea         90(33.8)           Preparation of anaesthetic equipment's is done by?           Anaesthetist         39(14.6)           Surgeon         19(7.1)           Anaesthesia technologist         142(53.2)           Nurses         22(8.2)           No idea         45(16.9)           Are anaesthesia technologists the authorized personnel to administer anaesthesia independently?           Yes         58(21.7)           No         107(40.1)           No idea         102(38.2)           What does Anaesthesia technologists do during administration of anaesthesia?         Assisting anaesthesia technologists do during administration of anaesthesia positioning of patient         73(27.3)           Monitoring of patient         22(8.2)           Helping in positioning of patient         19(7.1)           All of the above         102(38.2)		-
Recovery room         4(1.5)           All of the above         99(37.1)           No idea         37(13.9)           Does the anaesthesia technologist stay throughout the surgery?         120(44.9)           Yes         120(44.9)           No idea         90(33.8)           Preparation of anaesthetic equipment's is done by?         39(14.6)           Anaesthetist         39(14.6)           Surgeon         19(7.1)           Anaesthesia technologist         142(53.2)           Nurses         22(8.2)           No idea         45(16.9)           Are anaesthesia technologists the authorized personnel to administer anaesthesia independently?           Yes         58(21.7)           No         107(40.1)           No idea         102(38.2)           What does Anaesthesia technologists do during administration of anaesthesia?         Assisting anaesthesiologists         73(27.3)           Monitoring of patient         22(8.2)           Helping in positioning of patient         19(7.1)           All of the above         102(38.2)	Y B DEVELOPMENT A F	
All of the above       99(37.1)         No idea       37(13.9)         Does the anaesthesia technologist stay throughout the surgery?         Yes       120(44.9)         No       57(21.3)         No idea       90(33.8)         Preparation of anaesthetic equipment's is done by?         Anaesthetist       39(14.6)         Surgeon       19(7.1)         Anaesthesia technologist       142(53.2)         Nurses       22(8.2)         No idea       45(16.9)         Are anaesthesia technologists the authorized personnel to administer anaesthesia independently?         Yes       58(21.7)         No       107(40.1)         No idea       102(38.2)         What does Anaesthesia technologists do during administration of anaesthesia?       Assisting anaesthesiologists         Assisting anaesthesiologists       73(27.3)         Monitoring of patient       22(8.2)         Helping in positioning of patient       19(7.1)         All of the above       102(38.2)		` ′
No idea       37(13.9)         Does the anaesthesia technologist stay throughout the surgery?       120(44.9)         Yes       120(44.9)         No       57(21.3)         No idea       90(33.8)         Preparation of anaesthetic equipment's is done by?         Anaesthetist       39(14.6)         Surgeon       19(7.1)         Anaesthesia technologist       142(53.2)         Nurses       22(8.2)         No idea       45(16.9)         Are anaesthesia technologists the authorized personnel to administer anaesthesia independently?       Yes         Yes       58(21.7)         No       107(40.1)         No idea       102(38.2)         What does Anaesthesia technologists do during administration of anaesthesia?       Assisting anaesthesiologists       73(27.3)         Monitoring of patient       22(8.2)         Helping in positioning of patient       19(7.1)         All of the above       102(38.2)		1 /
Does the anaesthesia technologist stay throughout the surgery?           Yes         120(44.9)           No         57(21.3)           No idea         90(33.8)           Preparation of anaesthetic equipment's is done by?         39(14.6)           Anaesthetist         39(14.6)           Surgeon         19(7.1)           Anaesthesia technologist         142(53.2)           Nurses         22(8.2)           No idea         45(16.9)           Are anaesthesia technologists the authorized personnel to administer anaesthesia independently?         Yes           Yes         58(21.7)           No         107(40.1)           No idea         102(38.2)           What does Anaesthesia technologists do during administration of anaesthesia?         Assisting anaesthesiologists           Assisting anaesthesiologists         73(27.3)           Monitoring of patient         22(8.2)           Helping in positioning of patient         19(7.1)           All of the above         102(38.2)		1
Yes         120(44.9)           No         57(21.3)           No idea         90(33.8)           Preparation of anaesthetic equipment's is done by?         39(14.6)           Anaesthetist         39(14.6)           Surgeon         19(7.1)           Anaesthesia technologist         142(53.2)           Nurses         22(8.2)           No idea         45(16.9)           Are anaesthesia technologists the authorized personnel to administer anaesthesia independently?           Yes         58(21.7)           No         107(40.1)           No idea         102(38.2)           What does Anaesthesia technologists do during administration of anaesthesia?         73(27.3)           Assisting anaesthesiologists         73(27.3)           Monitoring of patient         22(8.2)           Helping in positioning of patient         19(7.1)           All of the above         102(38.2)		37(13.9)
No         57(21.3)           No idea         90(33.8)           Preparation of anaesthetic equipment's is done by?         39(14.6)           Anaesthetist         39(14.6)           Surgeon         19(7.1)           Anaesthesia technologist         142(53.2)           Nurses         22(8.2)           No idea         45(16.9)           Are anaesthesia technologists the authorized personnel to administer anaesthesia independently?         Yes           Yes         58(21.7)           No         107(40.1)           No idea         102(38.2)           What does Anaesthesia technologists do during administration of anaesthesia?         73(27.3)           Assisting anaesthesiologists         73(27.3)           Monitoring of patient         22(8.2)           Helping in positioning of patient         19(7.1)           All of the above         102(38.2)		120(44.0)
No idea         90(33.8)           Preparation of anaesthetic equipment's is done by?         39(14.6)           Anaesthetist         39(14.6)           Surgeon         19(7.1)           Anaesthesia technologist         142(53.2)           Nurses         22(8.2)           No idea         45(16.9)           Are anaesthesia technologists the authorized personnel to administer anaesthesia independently?           Yes         58(21.7)           No         107(40.1)           No idea         102(38.2)           What does Anaesthesia technologists do during administration of anaesthesia?         73(27.3)           Assisting anaesthesiologists         73(27.3)           Monitoring of patient         22(8.2)           Helping in positioning of patient         19(7.1)           All of the above         102(38.2)		1 1
Preparation of anaesthetic equipment's is done by?         Anaesthetist       39(14.6)         Surgeon       19(7.1)         Anaesthesia technologist       142(53.2)         Nurses       22(8.2)         No idea       45(16.9)         Are anaesthesia technologists the authorized personnel to administer anaesthesia independently?         Yes       58(21.7)         No       107(40.1)         No idea       102(38.2)         What does Anaesthesia technologists do during administration of anaesthesia?       73(27.3)         Assisting anaesthesiologists       73(27.3)         Monitoring of patient       22(8.2)         Helping in positioning of patient       19(7.1)         All of the above       102(38.2)		
Anaesthetist       39(14.6)         Surgeon       19(7.1)         Anaesthesia technologist       142(53.2)         Nurses       22(8.2)         No idea       45(16.9)         Are anaesthesia technologists the authorized personnel to administer anaesthesia independently?         Yes       58(21.7)         No       107(40.1)         No idea       102(38.2)         What does Anaesthesia technologists do during administration of anaesthesia?       73(27.3)         Assisting anaesthesiologists       73(27.3)         Monitoring of patient       22(8.2)         Helping in positioning of patient       19(7.1)         All of the above       102(38.2)		90(33.8)
Surgeon19(7.1)Anaesthesia technologist142(53.2)Nurses22(8.2)No idea45(16.9)Are anaesthesia technologists the authorized personnel to administer anaesthesia independently?Yes58(21.7)No107(40.1)No idea102(38.2)What does Anaesthesia technologists do during administration of anaesthesia?Assisting anaesthesiologists73(27.3)Monitoring of patient22(8.2)Helping in positioning of patient19(7.1)All of the above102(38.2)		20/14 ()
Anaesthesia technologist142(53.2)Nurses22(8.2)No idea45(16.9)Are anaesthesia technologists the authorized personnel to administer anaesthesia independently?Yes58(21.7)No107(40.1)No idea102(38.2)What does Anaesthesia technologists do during administration of anaesthesia?Assisting anaesthesiologists73(27.3)Monitoring of patient22(8.2)Helping in positioning of patient19(7.1)All of the above102(38.2)		
Nurses22(8.2)No idea45(16.9)Are anaesthesia technologists the authorized personnel to administer anaesthesia independently?Yes58(21.7)No107(40.1)No idea102(38.2)What does Anaesthesia technologists do during administration of anaesthesia?73(27.3)Assisting anaesthesiologists73(27.3)Monitoring of patient22(8.2)Helping in positioning of patient19(7.1)All of the above102(38.2)		` ′
No idea45(16.9)Are anaesthesia technologists the authorized personnel to administer anaesthesia independently?Yes58(21.7)No107(40.1)No idea102(38.2)What does Anaesthesia technologists do during administration of anaesthesia?Assisting anaesthesiologists73(27.3)Monitoring of patient22(8.2)Helping in positioning of patient19(7.1)All of the above102(38.2)	-	· · · · · ·
Are anaesthesia technologists the authorized personnel to administer anaesthesia independently?  Yes 58(21.7)  No 107(40.1)  No idea 102(38.2)  What does Anaesthesia technologists do during administration of anaesthesia?  Assisting anaesthesiologists 73(27.3)  Monitoring of patient 22(8.2)  Helping in positioning of patient 19(7.1)  All of the above 102(38.2)		
Yes58(21.7)No107(40.1)No idea102(38.2)What does Anaesthesia technologists do during administration of anaesthesia?Assisting anaesthesiologists73(27.3)Monitoring of patient22(8.2)Helping in positioning of patient19(7.1)All of the above102(38.2)		
No107(40.1)No idea102(38.2)What does Anaesthesia technologists do during administration of anaesthesia?Assisting anaesthesiologists73(27.3)Monitoring of patient22(8.2)Helping in positioning of patient19(7.1)All of the above102(38.2)	-	
No idea 102(38.2)  What does Anaesthesia technologists do during administration of anaesthesia?  Assisting anaesthesiologists 73(27.3)  Monitoring of patient 22(8.2)  Helping in positioning of patient 19(7.1)  All of the above 102(38.2)		1
What does Anaesthesia technologists do during administration of anaesthesia?  Assisting anaesthesiologists 73(27.3)  Monitoring of patient 22(8.2)  Helping in positioning of patient 19(7.1)  All of the above 102(38.2)		
Assisting anaesthesiologists 73(27.3)  Monitoring of patient 22(8.2)  Helping in positioning of patient 19(7.1)  All of the above 102(38.2)	No idea	102(38.2)
Monitoring of patient22(8.2)Helping in positioning of patient19(7.1)All of the above102(38.2)	What does Anaesthesia technologists do during administration of anaesthesia?	
Helping in positioning of patient 19(7.1) All of the above 102(38.2)	Assisting anaesthesiologists	73(27.3)
Helping in positioning of patient 19(7.1) All of the above 102(38.2)	Monitoring of patient	22(8.2)
All of the above 102(38.2)		
		102(38.2)
	No idea	

Is it compulsory for anaesthesia technologists to be present with anaesthetist during	the procedure?
Yes	170(63.7)
No	2810.5)
No idea	69(25.8)
How many anaesthesia technologists should be present with anaesthetist in OT?	
1	167(62.5)
2	65(24.3)
3	20(7.5)
More than 3	14(5.9)
Are the anaesthesia technologists responsible for the recovery of patient?	
Yes	101(37.8)
No	94(35.2)
No idea	72(27.0)

## TABLE 3

			AGECL	Total	Chi-Square	p- VALUE	
		18-25 (N=76)	26-45 (N=110)	46-65 (N=80)	Total	VALUE	p- VALUE
1 3371 1	A	21	27	30	78		
1.Who is an Anaesthesia Technologists	В	3	3	7	13	21.56	P<0.0001 s
	C	47	59	19	125	31.56	P<0.0001 S
	D	5	21cient	24	50		
2.Are the nurses and	A	29	39	21	89		
the anaesthesia technologists same?	В	40	46	27	113	20.66	P<0.0001 s
	C	A o	25 SR	32	64		

TABLE 4

		QUALIF	<b>ICATION</b>	Total	Chi-Square	p-VALUE	
		1	2	Total	Value	p-value	
1.Who is an Anaesthesia Technologists	A	58	20	78		P<0.0001 s	
	В	10	3	13	65.25		
	C	SSN33456-	47092	125			
	D	39	11	50			
2.Are the nurses and the anaesthesia technologists same?	A	31	58	89			
	В	59	54	113	28	P<0.0001 s	
	C	50	14	64			

# 1 = HSC & SSC, 2= Graduate & post graduate

#### **TABLE 5**

			GENDER		Chi-Square	P-value		
		F	M	Total	Value	r-value		
1.Who is an Anaesthesia Technologists	Α	46	32	78		P=0.107		
	В	5	8	13	6.09			
	С	61	64	125				
	D	19	31	50				
2.Are the nurses and the anaesthesia technologists same?	Α	54	35	89	8.43	P=0.015		
	В	53	60	113				
Same:	C	24	40	64				

Table 3, 4 & 5 shows association between knowledge and sociodemographic characteristics. It was found that participants in age classification of 26-45 years had maximum knowledge and it was significantly associated ( $x^2 = 31.56$ , P< 0.0001). The participants with higher knowledge i.e. graduate & post graduates had good knowledge and was significantly associated ( $x^2 = 65.25$ , P<0.0001). Males had better knowledge than females. There was no association between gender, area of living & knowledge score.

#### Discussion

Our study was conducted to assess the knowledge about anaesthesia technologists among the patients scheduled for surgery in MGM Medical College & Hospital, Aurangabad to study the awareness about the role of anaesthesia technologists in the perioperative management of patients scheduled to undergo operations.

To the best of our knowledge, it is the first study on patients undergoing elective surgery in the Maharashtra region for assessing knowledge regarding the role of Anaesthesia technologists. This would encourage anaesthesia technologists to establish their entity in the normal public and the fraternity would be known by many more to maintain safety protocols.

Marulasiddappa, V., & Nethra, et al. theorized that most of the participants were not aware of the role of anaesthesia and anaesthesiologists inside and outside the operation theatre whereas 47.2% were aware regarding the role of anaesthesia technologists. In their study, 44% did not know that anaesthesiologists are doctors as well as in our study only 47.2% of participants knew that anaesthesia technologists are assistants.

Uma, B. R., & Hanji, A. S. They found that 54% felt anaesthesiologists were someone who was just present in the OT whereas in our study 67% of participants knew that anaesthesia technologists should be present inside Operation Theatre

Baaj, J. et al. theorized that use of media should be used to educate illiterate sections of the patient on subjects related to anaesthesia. In our study, as well only 9% of participants knew about the information OT and anaesthesia technologists through social media.

Mathur, S. K., et al. conducted a study on patients, patient attendants, and medical undergraduates. They theorized that 100% of participants were not aware of anaesthesiology as a separate medical discipline and in our study, 56% of participants were aware that there is a different qualification required for OT & anaesthesia technologists

In addition, Lee, J. J, et al. conducted a national survey to identify the perception of the specialty of the role of anaesthesiologists and anaesthesiology. They found that 25.2% of participants were not aware that the anaesthesiologists were in charge of anaesthesia during the surgery whereas in our study only 53% were aware that OT and anaesthesia technologists are responsible personnel for anaesthesia equipment preparation.

Walode S, et.al stated that OT & anaesthesia technologists are personnel who are required in OT, casualty, ICUs, and different areas of hospital and outside hospitals but in our study, only 37.2% of participants knew that they are required in different departments of the hospital.

Our study shows that anaesthesia technologists although plays an important role, many of the patients are not aware about the role of anaesthesia technologists. There is a much need of efforts to be taken by the anaesthesia technologists in educating the patients. For the improvement in awareness in community, there is a need of increasing communication with patients. Exposure in the community through social media, newspapers and lectures and be increased. Efforts directed towards the information which increases the awareness of public of the role of anaesthesia technologists will contribute towards the improvement of awareness regarding the fraternity.

# **Limitations of the study**

This study is institution-based which could limit its generalizability and the cross-sectional nature of the study would also limit its ability to establish a temporal relation.

#### Conclusion

Most of the patients in our study were not aware of the role of anaesthesia technologists, the requirements of anaesthesia technologists in OT, and the roles and responsibilities of anaesthesia technologists. Although this could be attributed to their lower level of education, the fraternity of anaesthesia technologists has a very important responsibility to educate patients regarding their importance, and requirements in operation theatre and ICUs and also the very crucial role played by anaesthesia technologists inside and outside OT. These can be achieved by interacting more with patients in the preoperative period or PACs. Also, social media can also play a very important role in exploring their roles among the public.

This could go a long way in improving and recognizing the image of anaesthesia technologists with the patients and also among the public at large.

#### References

[1] Abhinava H, Ugandharan M. A Cross-Sectional Study Assessing Knowledge of Patients Attending a Teaching Hospital in South India about the Role of Anaesthesiologists. Anaesthesia: Essays and Researches. 2021 May;15(2):195.

- [2] ASA House of Delegates/Executive Committee. ASA Physical Status Classification System. 1962. Archived December 10, 2020.
- [3] Baaj, J., Michinov, L., Chandon, M., Baaj, R., Raucoules-Aimé, M., & Michinov, E. (2015). The anaesthetist seen by patients: results of the PHRC Rhone-Alpes study. Annales francaises d'anesthesie et de reanimation, 34(3), 178-185.
- [4] Buba SA, Dilza D, Abur PP. Assessment of knowledge about role and responsibilities of anaesthesiologists among patients scheduled for surgery at a tertiary hospital in North Eastern Nigeria. Sahel Medical Journal. 2018;21(2):90.
- [5] Daabiss M. (2011). American Society of Anaesthesiologists physical status classification. *Indian journal of anaesthesia*, 55(2), 111–115. https://doi.org/10.4103/0019-5049.79879
- [6] Goldmann, K., Malik, A., & Mort, E. (2011). Public understanding of the role of anaesthesiologists in the medical profession: A survey. Journal of Clinical Anaesthesia, 23(2), 145-148.
- [7] Lee, J. J., Lee, N. H., Noor Husin, N. A. B., Tan, H. C., Pawar, S. M., Marlina, A., ... & Hwong, W. Y. (2014). A national survey on the perception of the specialty of anaesthesiology: The Society for Obstetric Anaesthesia and Perinatology (SOAP) of Singapore study. Indian journal of anaesthesia, 58(4), 397. https://doi.org/10.4097/kjae.2014.66.1.12
- [8] Lins GE, Oliveira WR, Torres MV, Rebouças Silva ES, Torres SL, Antonio TS. What are the Main Responsibilities of the Anaesthesiologist?. Rev Bras Anestesiol. 2021 Sep 24:S0034-7094(21)00206-9.
- [9] Marulasiddappa, V., & Nethra, H. V. (2020). A survey to assess the knowledge of patients towards the role of anesthesiologists in

- perioperative care. Indian Journal of Anaesthesia, 64(5), 395. https://doi.org/10.4103/0259-1162.186595
- [10] Mathur, S. K., Dube, S. K., Jain, S., Swaroop, S., Singh, N., Khurana, D., & Garg, B. K. (2009). Knowledge about the anesthesia discipline. Journal of anesthesiology, clinical pharmacology, 25(2), 204-207.
- [11] Nigam, A. K., Lee, S. W., & Rasool, N. (2020). Public's perception of the role of anaesthesiologists: A survey. Indian Journal of Anaesthesia, 64(9), 785.
- [12] Roy, R. (1998). Anaesthetists' non-technical skills (ANTS): evaluation of a behavioural marker system. British Journal of Anaesthesia, 83(3), 420-428.
- [13] Shah, U., Wong, D., & Wong, J. (2015). Exploring the public's perception of anaesthesiology: A questionnaire survey. Hong Kong Medical Journal, 21(1), 63-71.
  - Shung, J., & Hines, R. (2000). A survey evaluating students' and physicians' perceptions of the roles of anaesthesiologists. Journal of Clinical Anaesthesia, 12(4), 276-282.
- [15] en Uma, B. R., & Hanji, A. S. (2013).

  "Anaesthesia and Anaesthesiologists: How Famous are We among the General Population?"- A Survey. *Journal of clinical and 66-6470 diagnostic research: JCDR*, 7(12), 2898–2900. https://doi.org/10.7860/JCDR/2013/7084.3788
- [16] Wu, C. L., & Richman, J. M. (2004). Postoperative pain and quality of recovery. Current Opinion in Anaesthesiology, 17(5), 455-460.
- [17] Walode S, Gadgil K, Nair R, Gawande S, Bodke P, Handore S. Awareness of Role and Responsibilities of Anesthesia Technologists: An Unpenetrated Domain. J Anesth Surg. 2021; 8(1):33–40.